

<div style="display: flex; align-items: center; justify-content: center;"> <div> <p>INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> </div> </div>				ATTY DOCKET NO. 132407-2		SERIAL NO. 10/749,420	
				Dennis Michael Gray et al.			
				FILING 12/31/2003		GROUP	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,439,237	3/27/1984	Kuminitzu et al.			
		5,206,083	4/27/1993	Raj et al.			
		5,230,755	7/27/1993	Pierantoni et al.			
		5,759,216	6/2/1998	Kanada et al.			
		5,932,293	8/3/1999	Belashchenko et al.			
		6,004,372	12/21/1999	Quets			
		US 6,245,390 B1	6/12/2001	Baranovski et al.			
		US 6,365,274 B1	4/2/2002	Scheckenbach et al.			
		US 6,513,728 B1	2/4/2003	Hughes et al.			
		US 6,562,480 B1	5/13/2003	Stong et al.			
		US 2002/0064667 A1	5/30/2002	Scheckenbach et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
		GB 2 024 260 A	9 Jan 1980	Great Britain			✓
		WO 01/92601 A1	06.12.2001	PCT			✓
		EP 0 224 827 B1	10.06.1987	European			✓
		EP 1 217 095 A1	26.02.2002	European			✓
			EP 1 111 089 A1	27.06.2001	European		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		JP 08-253877; Date of Publication of Application: 01.10.1996; Patent Abstracts of Japan (2 pgs)					
		WO0192601; 2001-12-06; Abstract Only (1 pg)					
EXAMINER				DATE CONSIDERED 1/06			
<p><small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small></p>							

INFORMATION DISCLOSURE CITATION
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ATTY DOCKET NO.
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
A7	WO 98/24576	11.06.98	PCT				✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

A7		EP0224827; 1987-06-10; Abstract Only (1 pg)
A7		EP1217095; 2002-06-26; Abstract Only (1 pg)

EXAMINER

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	EP1111089; 2001-06-27; Abstract Only (1 pg)
	Lee et al., "A Study on the Mechanism of Formation of Electrocodeposited Ni-diamond Coatings", Surface and Coatings Technology 148 (2001) 234-240

EXAMINER

DATE CONSIDERED

1/06

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Guan et al, "Ni-diamond Interactions", Materials Chemistry and Physics 46 (1996) 230-232
		Horlock et al, "Thermally Sprayed Ni(Cr)-TiB2 Coatings Using Powder Produced by Self-Propagating High Temperature Synthesis: Microstructure and Abrasive Wear Behaviour", Materials Science and Engineering A336 (2002) 88-98

EXAMINER

DATE CONSIDERED

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INFORMATION DISCLOSURE CITATION*(Use several sheets if necessary)*

Docket Number (Optional)

132407-2

Application Number

10/749,420

Applicant(s)

Dennis Michael Gray et al.

Filing Date

12/31/2003

Group Art Unit

*EXAMINER
INITIAL**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

Sikder et al., "Surface Engineering of Metal-Diamond Composite Coatings on Steel Substrates Using Chemical Vapour Deposition and Electroplating Routes" Surface and Coatings Technology 114 (1999) 230-234

Sikder et al., "Chemical Vapour Deposition of Diamond on Stainless Steel: The Effect of Ni-Diamond Composite Coated Buffer Layer" Diamond and Related Materials 7 (1998) 1010-1013

G. Meaden et al., "Laser Cutting of Diamond Fibres and Diamond Fibre/Titanium Metal Matrix Composites" Diamond and Related Materials 5 (1996) 825-828

Dai et al., "Effects of Rare Earth and Sintering Temperature on the Transverse Rupture Strength of Fe-Based Diamond Composites" Journal of Materials Processing Technology 129 (2002) 427-430

Reddy et al., "A Study on the Wear Resistance of Electroless Ni-P/Diamond Composite Coatings" Wear 239 (2000) 111-116

Ian Meredith, "The Wear Resistant Design and Rebuild of the Rangipo Francis Turbines", 10th HPEE Conference, 19-24 May 2002 Snowy Hidro AUS (19 pgs)

Malcolm et al., "Ashes to ashes?" AUSTRALASIA Rangipo Rebuild, International Water Power & Dam Construction February 1997 (3 pgs)

Alec van Rossen, "Refurbishing and Modifying Rangipo Hydro Turbines-To Survive Volcanic Ash In The Waterway" URHP, Montreal, 1997 (10 pgs)

EXAMINER

DATE CONSIDERED

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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i> <div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 8px;">PATENT & TRADEMARK OFFICE</div> <div style="text-align: center;">JUL 19 2003</div> </div>				ATTY DOCKET NO. 132407-2		APPLICATION NO. 10/749,420		
				APPLICANT(S) Gray et al.				
				FILING DATE December 31, 2003		GROUP ART UNIT 1734		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
A		4,925,626	05-15-1990	Anand et al	419	18	04-13-1989	
U.S. PATENT APPLICATION PUBLICATIONS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
A		DE 100 61 749 A1	06-20-2002	Germany	C23C	4/10		✓
		EP 0 687 746 A1	06-09-1995	EPO	C23C	2/00		✓
		JP 63057789 Abstract	03-12-1988	Japan	C23G	3/02	✓	
		GB 2 276 886 A	10-12-1994	Great Britain	C23C	4/06	✓	
A		EP 1 167 564 A1	01-02-2002	EPO	C23C	4/00		✓
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
A		International Search Report for International Application PCT/US2004/034931 filed October 21, 2004						
A		A. Karimi et al., HYDROABRASIVE WEAR BEHAVIOUR OF HIGH VELOCITY OXYFUEL THERMALLY SPRAYED WC-M COATINGS, Surface And Coating Technology, 62 (1993) 493-498						
EXAMINER				DATE CONSIDERED				
				7/06				
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FOREIGN PATENT DOCUMENTS								
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							YES	NO

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
		A. Karimi et al., MICROSTRUCTURE AND HYDROABRASIVE WEAR BEHAVIOUR OF HIGH VELOCITY OXY-FUEL THERMALLY SPRAYED WC-Co(Cr) COATINGS, Surface and Coatings Technology, 57 (1993) 81-89
		S. Siegmann et al., THERMALLY SPRAYED WEAR RESISTANT COATINGS WITH NANOSTRUCTURED HARD PHASES, Journal of Thermal Spray Technology, Volume 13(1) March 2004 37-43

EXAMINER	DATE CONSIDERED 1/03
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